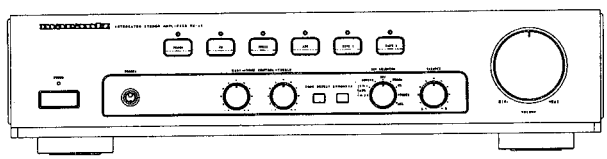
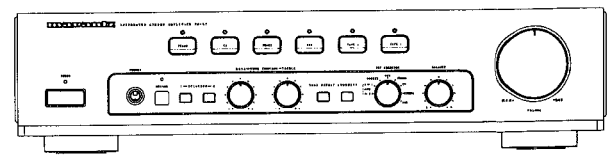
Service Manual

74PM47/01B/02B/05B
74PM57/01B/02B/05B

Integrated Stereo Amplifier



PM-47



PM-57

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Please use this service manual with referring to the user guide (D.F.U) without fail.

marantz®

model PM-47/PM-57

PCS 87 566

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Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

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4. Model number for which part is required
5. Way of shipment
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営業本部〒150 東京都渋谷区恵比寿南1丁目11番9号

SHOCK, FIRE HAZARD SERVICE TEST:

CAUTION: After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard NO.1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

1. TECHNICAL SPECIFICATIONS

	PM-47	PM-57
Power output		
RMS 8 Ohms/4 Ohms (20 Hz - 20 kHz)	40 / 60 W	50 / 70 W
DIN 8 Ohms 14 Ohms	45 / 65 W	55 / 75 W
IHF dynamic power		
8 Ohms I 4 Ohms	70 / 90 W	80 / 110 W
THD at 8 Ohms RMS rated output	0.008%	0.008%
Intermodulation distortion	0.008%	0.008%
Dam ping factor	60	60
Magnetic cartridge input		
Input sensitivity impedance	2.5 mV / 47 k ohms	2.5 mV .' 47 k ohms
Accuracy of frequency response to RIAA	0.5 dB	0.5 dB
Signal to noise ratio	86 dB	86 dB
Tuner / CD / Aux / Tape inputs		
Input sensitivity impedance	150 mV / 20 k ohms	150 mV / 20 k ohms
Signal to noise ratio	96 dB	96 dB
Frequency response (-1 dB)	10 - 50 kHZ	10 - 50 kHZ
Tone characteristic (100 Hz and 10 kHz)	±6 dB	±6 dB
Channel separation	80 dB	80 dB
General		
Power Requirements		
/ 01 version (4 voltages)	110/120/220/240 V AC, 50/60 Hz	110/120/220/240 V AC, 50/60 Hz
/ 02 / 05 version	230 V AC, 50 Hz	230 V AC, 50 Hz
Dimensions		
Panel Width	439 mm	439 mm
Panel Height	103 mm	103 mm
Depth	340 mm	340 mm
Weight		
Unit alone	5.4 kg	5.4 kg

Specifications subject to change without prior notice.

2. ADJUSTMENT

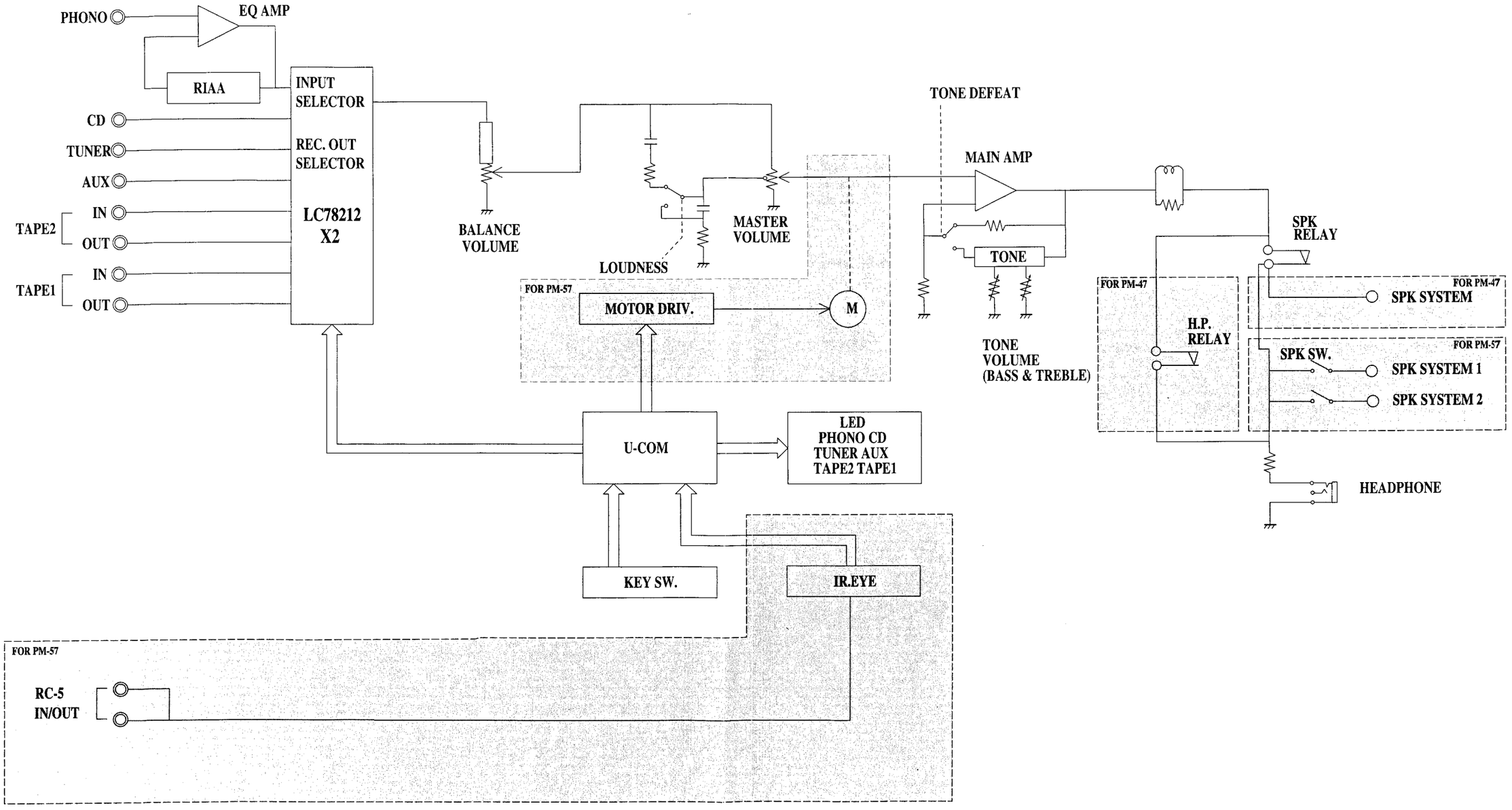
IDLING CURRENT ADJUSTMENT

Setting: Mid-position for Tone (Bass & Treble) and Balance
Minimum position for Volume
OFF position for Loudness & Tone defeat

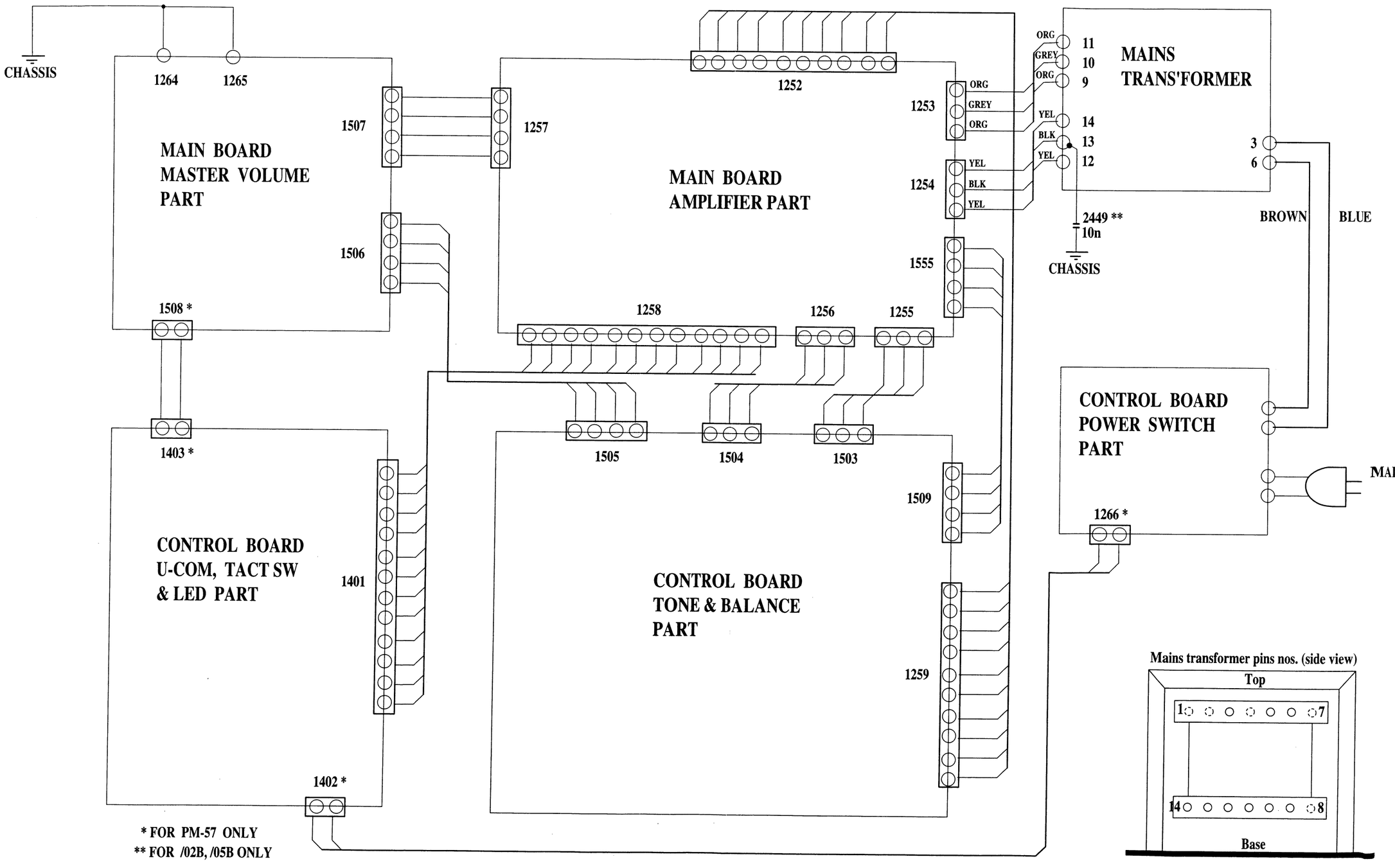
Adjust	Measured across	Voltmeter reading *
3295	3309	14mv
3296	3310	14mv

*Adjustment should be done after switch on the set for 5 minutes.

PM-47/57 BLOCK DIAGRAM

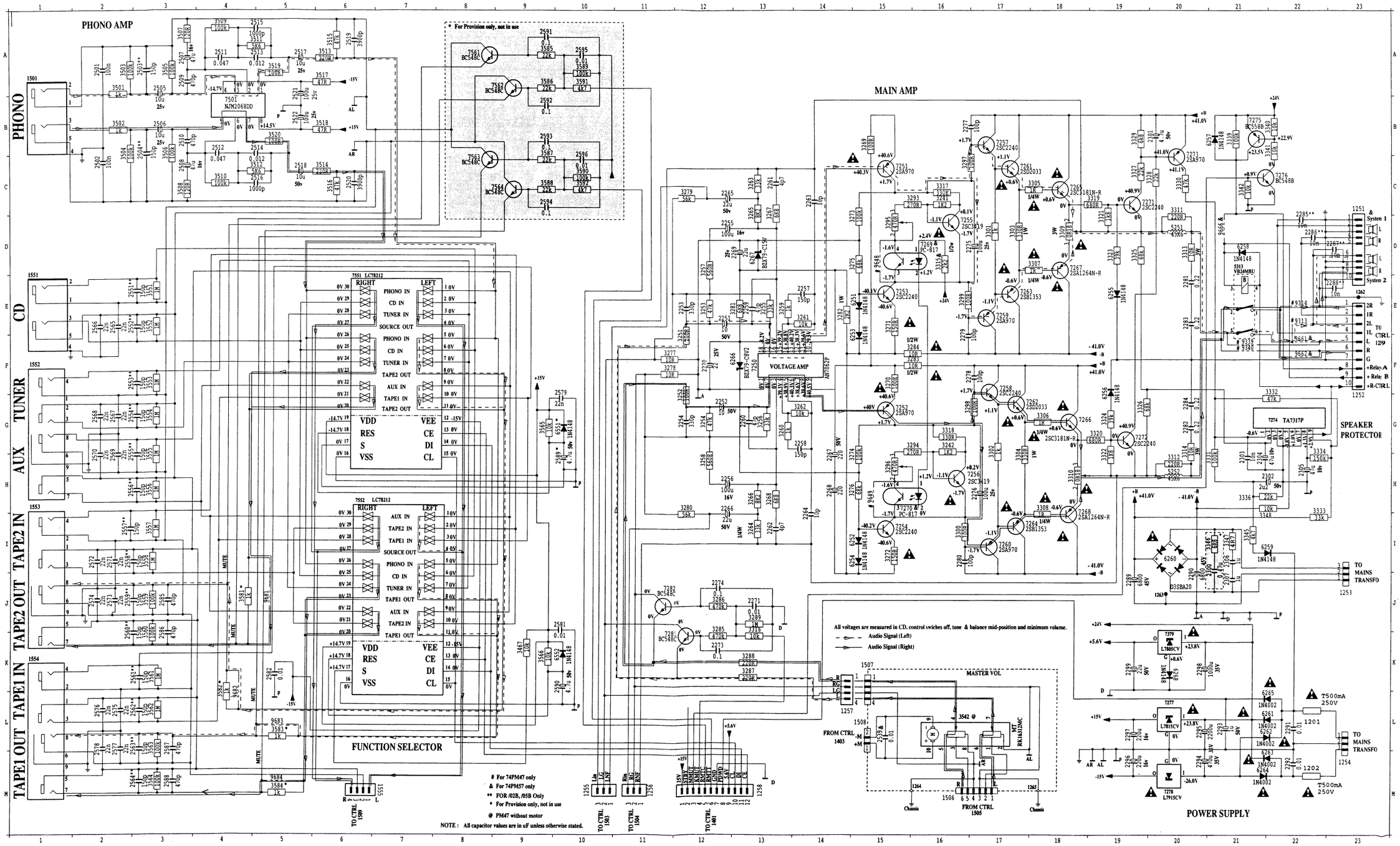


PM-47/57 WIRING DIAGRAM

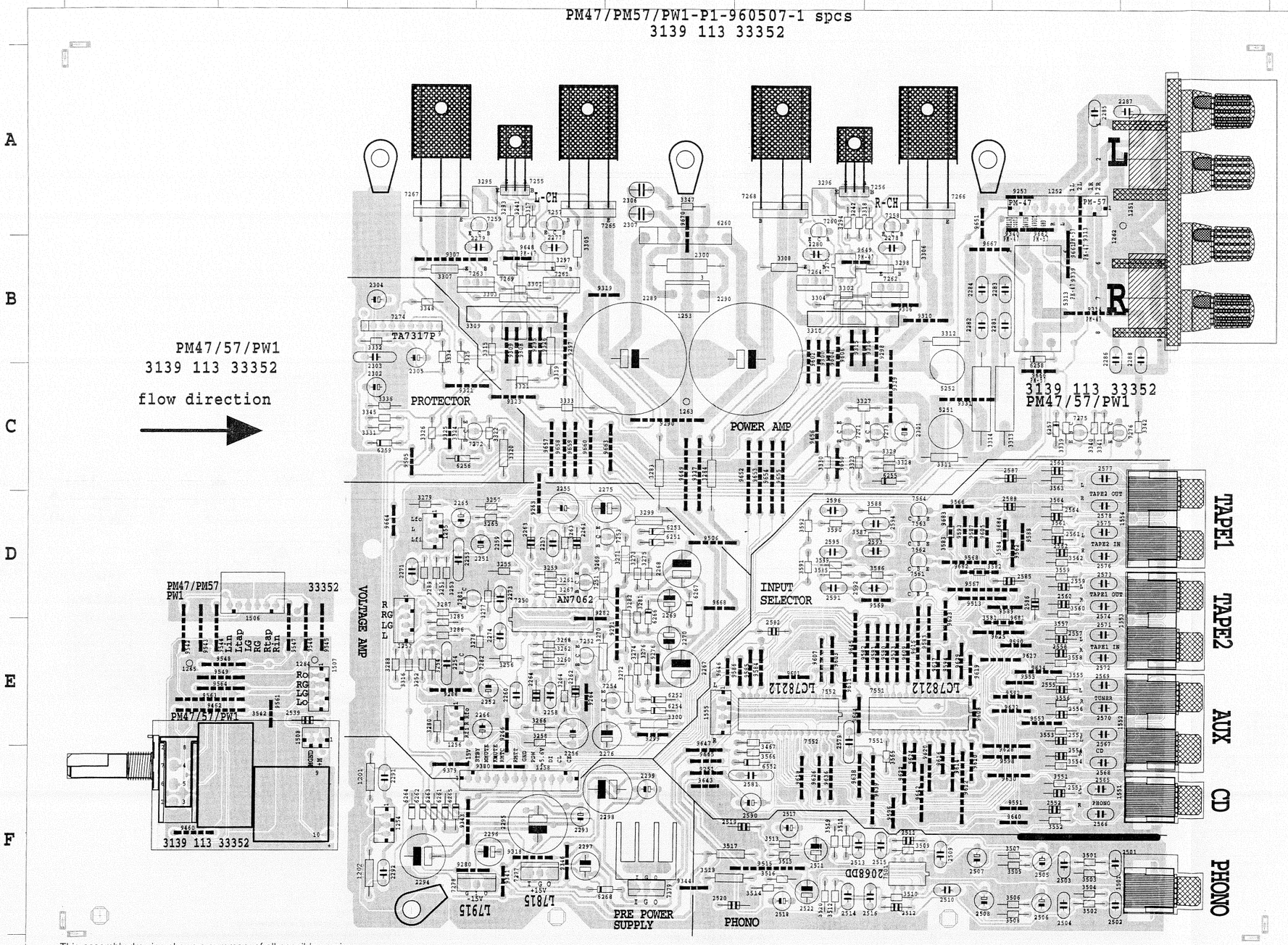


Mains transformer pins nos. (side view)

5. SCHEMATIC DIAGRAM AND PARTS LOCATION (Pattern Side)



PM47/PM57/PW1-P1-960507-1 spcs
3139 113 33352



This assembly drawing shows a summary of all possible versions.
For components used in a specific version see schematic diagram and respective parts list.

1251	A 9	2519	F 6	3300	E 5	5251	C 7	9339	B 8	9653	C 6				
1252	A 8	2520	F 6	3301	B 4	5252	C 7	9340	A 8	9654	C 6				
1253	B 5	2521	F 6	3302	B 6	5313	B 8	9341	F 4	9655	C 6				
1254	F 3	2522	F 6	3303	B 4	6251	D 5	9343	F 3	9656	C 6				
1255	D 3	2539	E 2	3304	B 6	6252	E 5	9344	F 5	9657	C 4				
1256	E 3	2551	F 8	3305	B 4	6253	D 5	9346	F 4	9658	C 4				
1257	E 3	2552	F 8	3306	B 7	6254	E 5	9379	F 3	9659	C 4				
1258	F 4	2553	E 8	3307	B 3	6255	C 7	9380	F 4	9660	C 4				
1262	A 9	2554	F 8	3308	B 6	6256	C 3	9460	F 1	9661	B 8				
1263	C 5	2555	E 8	3309	B 4	6257	C 8	9462	E 1	9662	A 8				
1264	E 2	2556	E 8	3310	B 6	6258	B 8	9505	C 3	9663	C 5				
1265	E 1	2557	E 8	3311	C 7	6259	C 3	9506	D 5	9664	D 3				
1501	F 9	2558	E 8	3312	B 7	6260	B 5	9513	D 7	9665	F 5				
1506	D 2	2559	D 8	3313	C 8	6261	F 3	9515	F 6	9666	C 8				
1507	E 2	2560	D 8	3314	C 7	6262	F 3	9533	E 7	9667	B 7				
1508	E 2	2561	D 8	3315	B 4	6263	F 3	9542	E 1	9668	D 5				
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1555	E 5	2566	F 8	3320	C 4	6268	F 5	9547	E 2	9683	D 7				
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2252	E 4	2568	F 8	3322	C 4	7250	E 4	9549	E 2						
2253	D 3	2569	E 8	3323	C 6	7251	D 4	9553	E 8						
2254	E 3	2570	E 8	3324	C 3	7252	E 4	9555	E 8						
2255	D 4	2571	E 8	3325	B 3	7253	D 5	9561	E 2						
2256	E 4	2572	E 8	3326	C 3	7254	E 5	9562	D 8						
2257	D 4	2573	D 8	3327	C 7	7255	A 4	9563	E 1						
2258	E 4	2574	D 8	3328	C 7	7256	A 6	9564	E 2						
2259	D 4	2575	D 8	3329	C 7	7257	A 4	9566	D 7						
2260	E 4	2576	D 8	3330	C 6	7258	A 7	9567	D 7						
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2262	E 4	2578	D 8	3332	B 3	7260	A 6	9569	D 7						
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2266	E 4	2585	D 8	3339	C 8	7264	B 6	9583	E 7						
2267	E 5	2586	D 8	3340	C 8	7265	A 4	9584	E 6						
2268	D 5	2587	C 8	3341	C 8	7266	A 7	9585	E 6						
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2270	E 5	2590	F 6	3343	F 3	7268	A 6	9587	D 7						
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2273	D 4	2592	D 7	3345	C 3	7270	B 6	9589	D 8						
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2276	E 5	2595	D 6	3467	E 6	7273	C 7	9592	E 8						
2277	B 4	2596	D 6	3501	F 8	7274	B 3	9593	D 7						
2278	B 7	3241	A 4	3502	F 8	7275	C 8	9594	E 7						
2279	B 4	3242	A 6	3503	F 8	7276	C 8	9596	F 7						
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2282	B 7	3253	D 3	3506	F 8	7281	D 3	9602	B 6						
2283	B 8	3254	E 3	3507	F 8	7282	E 3	9603	E 6						
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2285	A 8	3256	E 4	3509	F 7	7501	F 7	9605	D 7						
2286	B 8	3257	D 4	3510	F 7	7551	E 7	9606	B 6						
2287	A 9	3258	E 4	3511	F 6	7552	E 6	9607	E 6						
2288	B 9	3259	D 4	3512	F 6	7561	D 7	9608	E 7						
2289	B 5	3260	E 4	3513	F 6	7562	D 7	9609	E 7						
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2297	F 4	3268	E 4	3542	F 2	9271	E 5	9618	F 6						
2298	F 5	3269	D 5	3551	F 8	9276	E 5	9619	E 7						
2299	F 5	3270	E 5	3552	F 8	9280	F 4	9620	F 7						
2300	B 5	3271	D 5	3553	E 8	9282	E 4	9622	F 7						
2301	C 7	3272	E 5	3554	F 8	9288	E 3	9623	E 7						
2302	C 3	3273	D 5	3555	E 8	9290	C 5	9624	F 7						
2303	B 3	3274	E 5	3556	E 8	9295	B 4	9625	E 8						
2304	B 3	3275	D 5	3557	E 8	9297	B 4	9626	F 6						
2305	B 3	3276	E 5	3558	E 8	9298	B 7	9627	E 8						
2306	A 5	3277	D 4	3559	D 8	9299	E 5	9628	E 8						
2307	A 5	3278	E 4	3560	D 8	9300	B 6	9629	E 7						
2501	F 9	3279	D 3	3561	D 8	9306	B 7	9630	F 8						
2502	F 9	3280	E 3	3562	D 8	9307	B 3	9632	E 8						
2503	F 8	3281	D 5	3563	C 8	9308	B 4	9634	E 8						
2504	F 8	3282	E 5	3564	D 8	9309	B 4	9636	F 6						
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2515	F 7	3296	A 6	3589	D 6	9326	B 4	9649	B 6						
2516	F 7	3297	B 4	3590	D 6	9327	C 5	9650	C 6						
2517	F 6	3298	B 7	3591	D 6	9329	C 7	9651	A 7						
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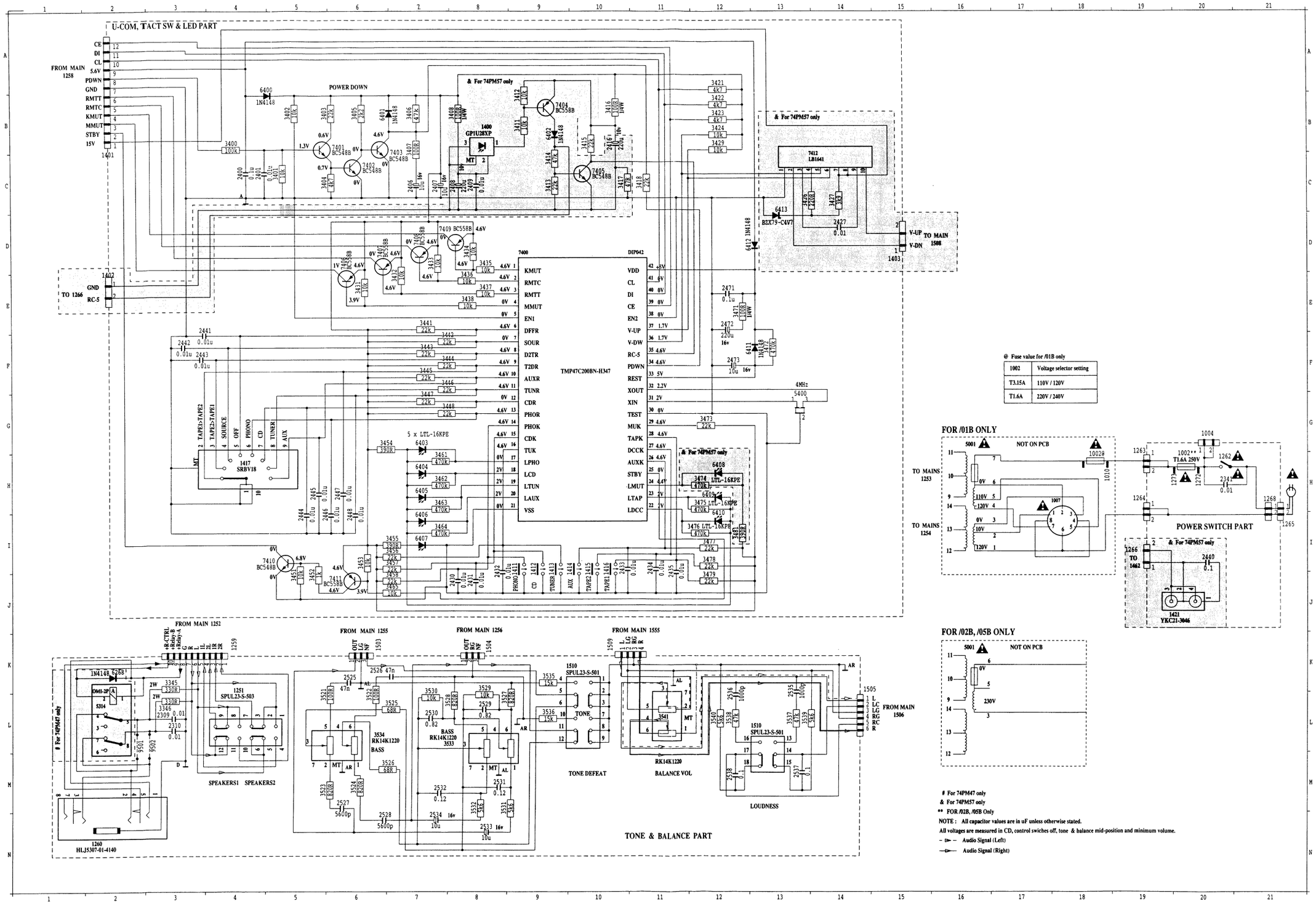
CONTROL BOARD



@ Fuse value for /01B only

1002	Voltage selector setting
T3.15A	110V / 120V
T1.6A	220V / 240V

1001 H18 3535 K 9
1002 H19 3536 L 9
1003 H18 3537 L11
1004 G20 3538 L12
1251 K 4 3539 L13
1259 K 4 3540 L12
1260 N 2 3541 L11
1262 H20 5314 L 2
1263 G19 6400 G13
1264 H19 6268 K 2
1265 I21 6400 A 4
1266 I19 6401 B 6
1267 J20 6402 B 9
1268 H21 6403 G 7
1400 B 8 6404 H 7
1401 B 2 6405 H 7
1402 E 2 6406 I 7
1403 D15 6407 I 7
1411 I 9 6408 H12
1412 I 9 6409 H12
1413 I 9 6410 I12
1414 I10 6411 F12
1415 I10 6412 D12
1416 I10 6413 C13
1417 H 4 7400 D 9
1421 J20 7401 B 6
1501 K 8 7402 C 6
1504 K 8 7403 B 7
1505 K14 7404 B 9
1509 K10 7405 C10
1510 K 9 7406 D 6
1530 L13 7407 D 9
2309 L 3 7408 D 7
2310 L 3 7409 D 7
2341 H20 7410 I 6
2342 H20 7411 G 7
2400 C 4 7412 C13
2401 C 4 9501 L 2
2406 C 7 9502 L 1
2407 C 7
2408 C 8
2409 C 8
2416 B10
2427 D14
2430 J 8
2431 J 8
2432 I 8
2433 I10
2434 I11
2435 I11
2440 I20
2441 F 3
2442 F 3
2443 F 3
2444 I 5
2445 H 5
2446 I 5
2447 H 6
2448 I 6
2449 J20
2471 F12
2472 F12
2473 F12
2525 K 9
2526 K 9
2527 M 6
2528 N 6
2529 L 8
2530 L 8
2531 M 8
2532 M 8
2533 M 8
2534 M 8
2535 K 9
2536 L 9
2537 L11
2538 L12
2539 L13
2540 L12
2541 L11
5314 L 2
6400 G13
6268 K 2
6400 A 4
6401 B 6
6402 B 9
6403 G 7
6404 H 7
6405 H 7
6406 I 7
6407 I 7
6408 H12
6409 H12
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6411 F12
6412 D12
6413 C13
7400 D 9
7401 B 6
7402 C 6
7403 B 7
7404 B 9
7405 C10
7406 D 6
7407 D 9
7408 D 7
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9502 L 1

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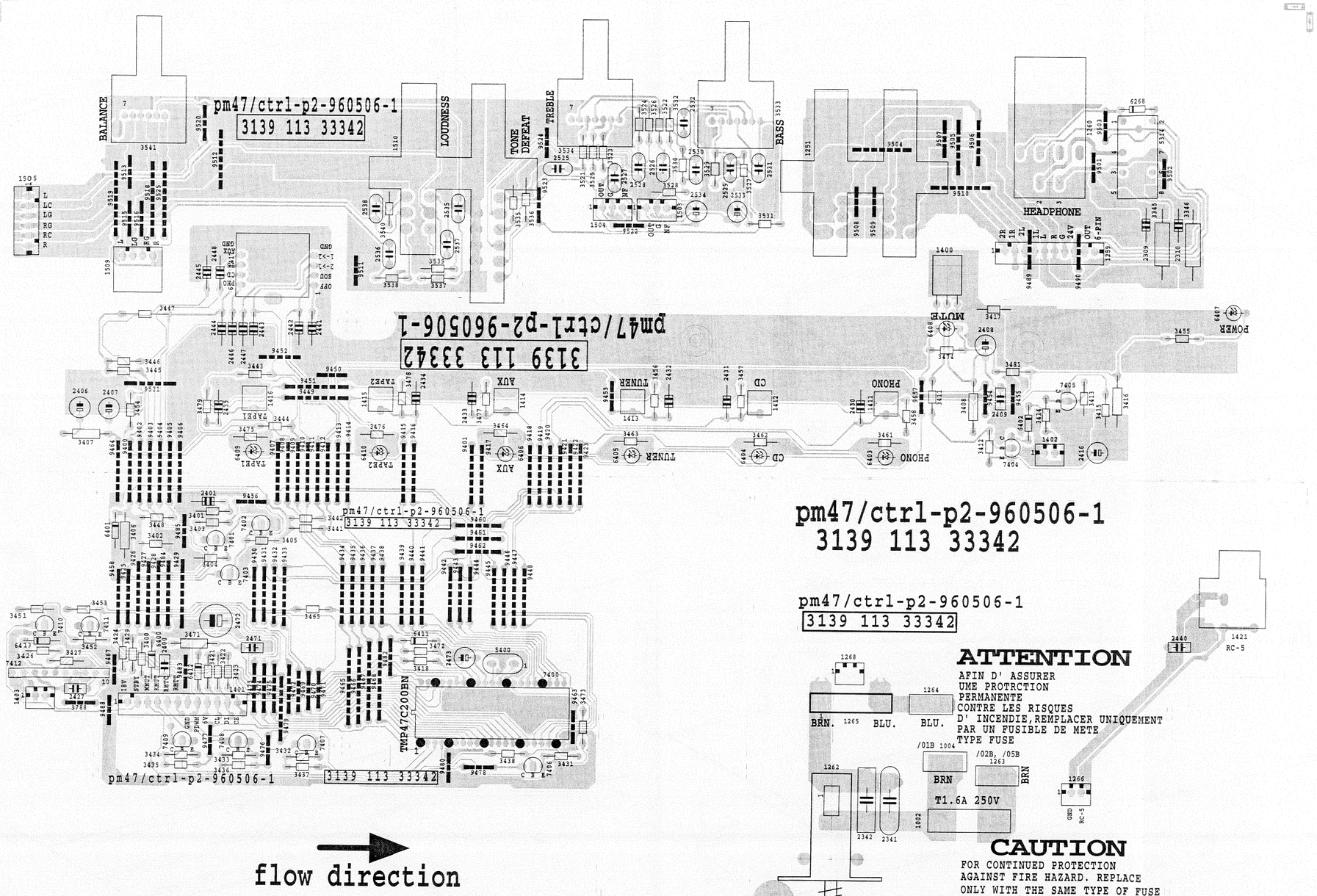
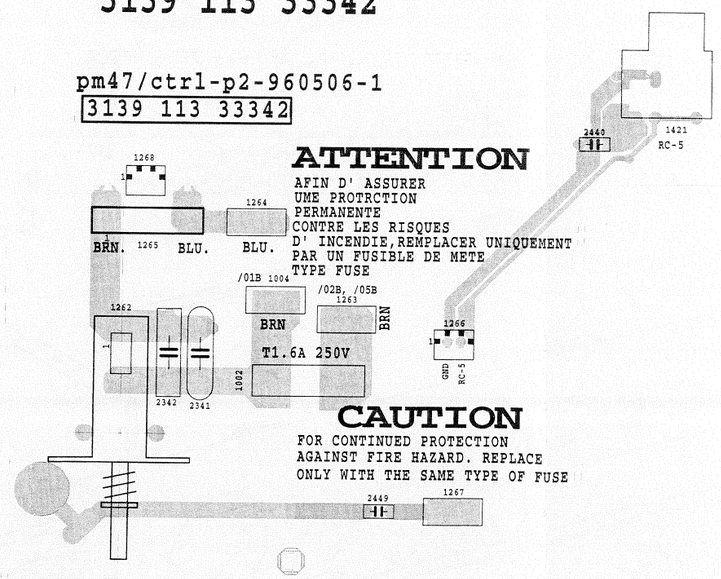


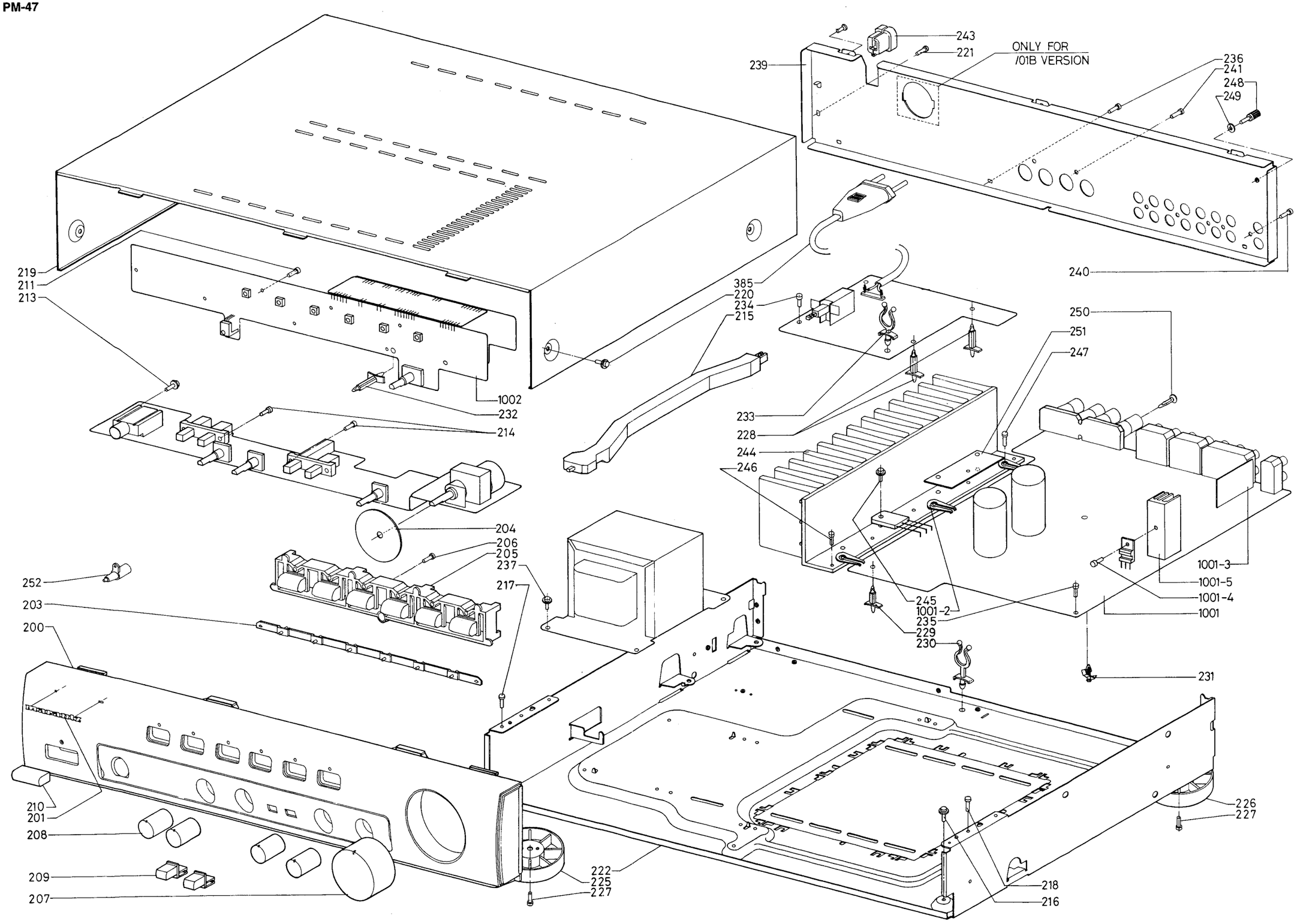


This assembly drawing shows a summary of all possible versions.
For components used in a specific version see schematic diagram and respective parts list.

1002 F 7	3423 E 2	9400 C 1	9510 A 7
1004 E 7	3424 E 1	9401 C 4	9511 B 3
1251 B 6	3426 E 1	9402 C 1	9512 A 2
1259 B 8	3427 E 1	9403 C 1	9513 A 1
1260 A 8	3429 E 1	9404 C 1	9515 B 1
1262 F 6	3431 E 4	9405 C 2	9516 B 1
1263 F 7	3432 E 3	9406 C 2	9518 A 1
1264 E 7	3433 E 2	9407 C 2	9519 A 1
1265 E 6	3434 E 2	9408 C 2	9520 A 2
1266 F 8	3435 F 2	9409 C 2	9521 C 1
1267 F 8	3436 F 2	9410 C 3	9522 B 5
1268 E 6	3437 F 3	9411 C 3	9523 A 4
1400 B 7	3438 E 4	9412 C 3	9524 A 4
1401 E 2	3441 D 3	9413 C 3	9525 A 2
1402 C 8	3442 D 3	9414 C 3	9657 C 7
1403 E 1	3443 C 2	9415 C 3	9788 E 1
1411 C 7	3444 C 2	9416 C 3	
1412 C 6	3445 C 1	9417 C 4	
1413 C 5	3446 C 1	9418 C 4	
1414 C 4	3447 B 1	9419 C 4	
1415 C 3	3448 D 1	9420 C 4	
1416 C 2	3451 D 1	9421 C 4	
1417 B 2	3452 E 1	9422 C 4	
1421 D 9	3453 D 1	9423 C 4	
1503 A 5	3454 C 1	9425 D 1	
1504 A 5	3455 B 9	9426 D 1	
1505 B 1	3456 C 5	9427 D 1	
1509 B 1	3457 C 6	9428 D 1	
1510 B 4	3458 C 7	9429 D 2	
2309 B 9	3461 C 7	9430 D 2	
2310 B 9	3462 C 6	9431 D 2	
2341 F 7	3463 C 5	9432 D 2	
2342 F 7	3464 C 4	9433 D 2	
2400 E 2	3465 D 3	9434 D 3	
2401 D 2	3471 E 2	9435 D 3	
2406 C 1	3472 E 3	9436 D 3	
2407 C 1	3473 E 5	9437 D 3	
2408 B 7	3474 B 7	9438 D 3	
2409 C 7	3475 C 2	9439 D 3	
2416 C 8	3476 C 3	9440 D 3	
2427 E 1	3477 C 4	9441 D 3	
2430 C 6	3478 C 3	9442 D 4	
2431 C 6	3479 C 2	9443 D 4	
2432 C 5	3481 C 8	9444 D 4	
2433 C 4	3521 A 4	9445 D 4	
2434 C 3	3522 A 5	9446 D 4	
2435 C 2	3523 A 5	9447 D 4	
2440 E 9	3524 A 5	9448 D 4	
2441 B 3	3525 A 5	9449 C 3	
2442 B 2	3526 A 5	9450 C 3	
2443 B 2	3527 A 6	9451 C 3	
2444 B 2	3528 A 5	9452 C 2	
2445 B 2	3529 A 5	9453 C 5	
2446 B 2	3530 A 5	9454 C 7	
2447 B 2	3531 B 6	9455 C 8	
2448 B 2	3532 A 5	9456 D 2	
2449 F 8	3533 A 6	9458 D 1	
2471 E 2	3534 A 5	9460 D 4	
2472 D 2	3535 A 4	9461 D 4	
2473 E 4	3536 A 4	9462 D 4	
2525 A 4	3537 B 3	9463 E 4	
2526 A 5	3538 B 3	9464 C 1	
2527 A 5	3539 B 3	9465 E 3	
2528 A 5	3540 B 3	9466 E 3	
2529 A 6	3541 A 1	9467 E 3	
2530 A 5	5314 A 8	9468 E 3	
2531 A 6	5400 E 4	9469 E 2	
2532 A 5	6268 A 8	9470 E 3	
2533 B 6	6400 E 1	9471 E 3	
2534 B 5	6401 D 1	9472 E 2	
2535 B 4	6402 C 8	9473 E 2	
2536 B 3	6403 C 7	9474 E 2	
2537 B 4	6404 C 6	9475 E 2	
2538 B 3	6405 C 5	9476 E 2	
3345 B 9	6406 C 4	9477 E 2	
3346 B 9	6407 B 9	9478 F 4	
3400 E 1	6408 B 7	9479 E 2	
3401 D 2	6409 C 2	9480 F 4	
3402 D 1	6410 C 3	9482 E 3	
3403 D 2	6411 E 3	9483 E 2	
3404 D 2	6412 E 2	9484 D 2	
3405 D 2	6413 E 1	9485 D 2	
3406 D 1	7400 E 4	9487 E 1	
3407 C 1	7401 D 2	9488 E 1	
3408 C 7	7402 D 2	9489 B 8	
3411 C 7	7403 D 2	9490 B 8	
3412 C 7	7404 C 8	9501 A 8	
3413 C 8	7405 C 8	9502 A 9	
3414 C 8	7406 F 4	9503 A 8	
3415 C 8	7407 E 3	9504 A 7	
3416 C 8	7408 E 2	9505 A 7	
3417 B 7	7409 E 2	9506 A 7	
3418 E 3	7410 E 1	9507 A 7	
3421 E 2	7411 E 1	9508 A 6	
3422 E 2	7412 E 1	9509 A 7	

6. EXPLODED VIEW AND PARTS LIST

For PM-47



PARTS LIST FOR PM-47

(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, **:EUROPE)

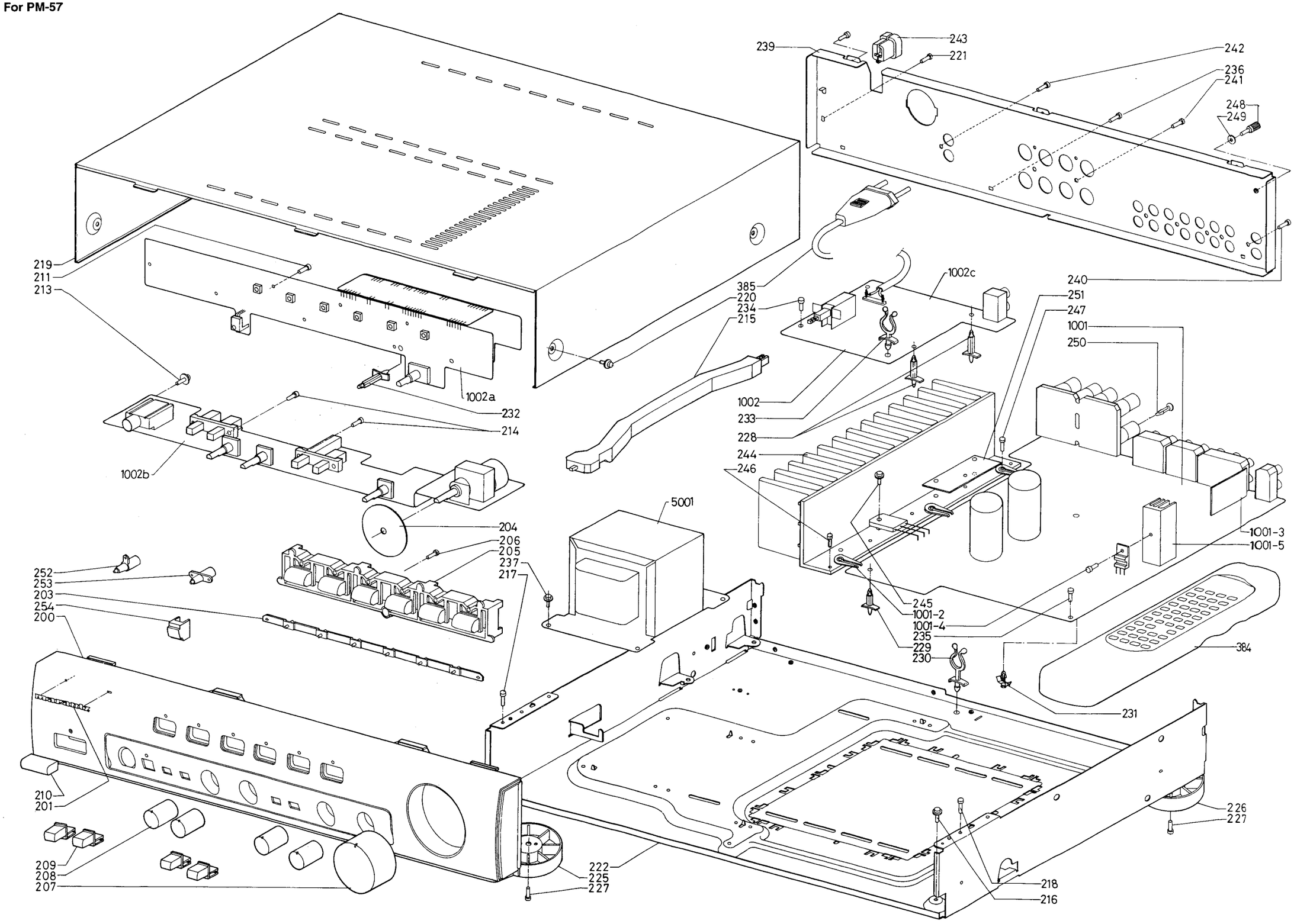
POS. NO	VERS. COLOR	PART NO. (FOR EUROPE)	DESCRIPTION	PART NO. (USA/JPN)
200		4822 459 04198	FRONT CABINET	QP45904198
201		4822 454 12948	MARANTZ BADGE	QP45412948
203		4822 466 11148	LIGHT GUIDE LED	QP46611148
205		4822 410 10558	BUTTON - SET FUNCTION	QP41010558
207		4822 410 10559	VOLUME KNOB	QP41010559
208		4822 410 10561	KNOB	QP41010561
209		4822 410 10562	BUTTON PUSH/PUSH	QP41010562
210		4822 462 72053	POWER BUTTON	QP46272053
225		4822 462 42129	LEG - GOLD	QP46242129
226		4822 462 42131	LEG - GOLD	QP46242131
⚠ 243		4822 532 60948	BUSH	QP53260948
248		4822 502 13921	SCREW - PHONO GND	QP50213921
252		4822 466 11149	LIGHT GUIDE POWER	QP46611149
385	01B/02B	4822 321 10781	MAINS CORD	QP32110781
⚠ 385	05B	4822 321 10941	MAIN CORD UK	QP32110941
387		4822 736 14443	INSTRUCTION FOR USE	QP73614443
⚠ 391	01B	4822 263 21092	ADAPTOR PLUG 6A 250V	QP26321092
⚠ 392	01B	4822 070 33152	FUSE T3.15A IEC 250V	QP07033152
⚠ 1007	01B	4822 273 10317	VOLTAGE SELECTOR	QP27310317
⚠ 1010	01B	4822 256 30233	FUSE HOLDER	QP25630233
2449	02B/05B	4822 122 33307	10nF 5% 50V	QP12233307
⚠ 5001	01B	4822 146 10506	MAINS TRANSFORMER OVS	QP14610506
⚠ 5001	02B/05B	4822 146 10517	MAINS TRANSFORMER IEC	QP14610517

PARTS LIST FOR PM-57

(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, **:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR EUROPE)	DESCRIPTION	PART NO. (USA/JPN)
200		4822 459 04212	FRONT CABINET	QP45904212
201		4822 454 12948	MARANTZ BADGE	QP45412948
203		4822 466 11148	LIGHT GUIDE LED	QP46611148
205		4822 410 10558	BUTTON - SET FUNCTION	QP41010558
207		4822 410 10559	VOLUME KNOB	QP41010559
208		4822 410 10561	KNOB	QP41010561
209		4822 410 10562	BUTTON PUSH/PUSH	QP41010562
210		4822 462 72053	POWER BUTTON	QP46272053
225		4822 462 42129	LEG GOLD	QP46242129
226		4822 462 42131	LEG GOLD	QP46242131
⚠ 243		4822 532 60948	BUSH	QP53260948
248		4822 502 13921	SCREW PHONO GND	QP50213921
252		4822 466 11149	LIGHT GUIDE POWER	QP46611149
253		4822 466 11158	LIGHT GUIDE MUTE	QP46611158
254		4822 381 11749	WINDOW REMOTE CONTRO	QP38111749
384		4822 219 10067	REMOTE CONTROL RC040	QP21910067
385	01B/02B	4822 321 10781	MAINS CORD	QP32110781
⚠ 385	05B	4822 321 10941	MAINS CORD UK	QP32110941
387		4822 736 14443	INSTRUCTION FOR USE	QP73614443
⚠ 391	01B	4822 263 21092	ADAPTOR PLUG 6A 250V	QP26321092
⚠ 392	01B	4822 070 33152	FUSE T3.15A IEC 250V	QP07033152
⚠ 1007	01B	4822 273 10317	VOLTAGE SELECTOR	QP27310317
⚠ 1010	01B	4822 256 30233	FUSE HOLDER	QP25630233
2449	02B/05B	4822 122 33307	10nF 5% 50V	QP12233307
⚠ 5001	01B	4822 146 10521	MAINS TRANSFORMER OV	QP14610521
⚠ 5001	02B/05B	4822 146 10518	MAINS TRANSFORMER IEC	QP14610518

For PM-57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1002a
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1002b
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206
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217
5001
1001-3
1001-5
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1001-2
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7. ELECTRICAL PARTS LIST

(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, **:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR EUROPE)	DESCRIPTION	PART NO. (USA/JPN)
			MAIN BOARD	
			MISCELLANEOUS	
▲ 1201		4822 071 55001	FUSE T500mA 250V	QP07155001
▲ 1202		4822 071 55001	FUSE T500mA 250V	QP07155001
1251	PM47	4822 265 10649	LOUDSPEAKER SOCKET	QP26510649
1251	PM57	4822 265 10655	LOUDSPEAKER SOCKET 8P	QP26510655
1501		4822 265 10654	CINCH SOCKET - PHONO	QP26510654
1552		4822 267 20453	CINCH SOCKET - CD/TUNER/AUX	QP26720453
1553		4822 267 31452	CINCH SOCKET - TAPE 2	QP26731452
1554		4822 267 31452	CINCH SOCKET - TAPE 1	QP26731452
5251		4822 157 70599	IND. FIXED BEAD	QP15770599
5252		4822 157 70599	IND. FIXED BEAD	QP15770599
5313		4822 280 80764	RELAY 2P 24V 5A	QP28080764
			CAPACITORS	
2251		4822 124 11777	S10µF 25V 20%	QP12411777
2252		4822 124 11777	S10µF 25V 20%	QP12411777
2253		4822 126 10779	330pF 50V	QP12610779
2254		4822 126 10779	330pF 50V	QP12610779
2255		4822 124 11761	100µF 20% 50V	QP12411761
2256		4822 124 11761	100µF 20% 50V	QP12411761
2257		4822 126 13985	150pF 5% 50V	QP12613985
2258		4822 126 13985	150pF 5% 50V	QP12613985
2259		4822 122 31072	47pF 2% 100V	QP12231072
2260		4822 122 31072	47pF 2% 100V	QP12231072
2261		4822 122 10465	4.7pF 10% 50V	QP12210465
2262		4822 122 10465	4.7pF 10% 50V	QP12210465
2263		4822 122 33847	10pF 5%NP0 50V	QP12233847
2264		4822 122 33847	10pF 5%NP0 50V	QP12233847
2265		4822 124 41596	22µF20% 50V	QP12441596
2266		4822 124 41596	22µF20% 50V	QP12441596
2267		5322 124 22094	220µF20% 50V	QQ12422094
2268		5322 124 22094	220µF20% 50V	QQ12422094
2269		4822 124 11778	S22µF 25V 20%	QP12411778
2270		4822 124 11778	S22µF 25V 20%	QP12411778
2271		5322 121 42386	100nF 5% 63V	QQ12142386
2273		5322 121 42386	100nF 5% 63V	QQ12142386
2274		5322 121 42386	100nF 5% 63V	QQ12142386
2275		4822 124 80293	100µF 20% 25V	QP12480293
2276		4822 124 80293	100µF 20% 25V	QP12480293
2277				
|		4822 126 10777	100pF 50V	QP12610777
2280				
2281				
|		4822 121 42408	220nF 5% 63V	QP12142408
2284				
2285				
|	/02B/05B	4822 124 80141	10nF 10% 50V	QP12480141
2288				
2289		4822 124 11504	6800µF 20% 50V	QP12411504
2290		4822 124 11504	6800µF 20% 50V	QP12411504
2291		4822 124 80141	10nF 10% 50V	QP12480141
2292		4822 124 80141	10nF 10% 50V	QP12480141
2293		4822 124 40242	1µF 20% 63V	QP12440242
2294		4822 124 42392	470µF 20% 50V	QP12442392
2295		4822 124 41993	2200µF 20% 35V	QP12441993
2296		4822 124 11779	S220µF 16V 20%	QP12411779
2297		4822 124 11779	S220µF 16V 20%	QP12411779
2298		5322 124 22229	1000µF 20% 35V	QQ12422229
2299		4822 124 41596	22µF 20% 50V	QP12441596
▲ 2301		4822 124 40246	4.7µF 20% 63V	QP12440246

POS. NO	VERS. COLOR	PART NO. (FOR EUROPE)	DESCRIPTION	PART NO. (USA/JPN)
2302		4822 124 41576	2.2µF 20% 50V	QP12441576
2303		4822 124 80141	10nF 10% 50V	QP12480141
2304		4822 124 80196	47µF 20% 50V	QP12480196
2305		4822 124 80196	47µF 20% 50V	QP12480196
2306		4822 121 51319	1µF 10% 63V	QP12151319
2307		4822 121 51319	1µF 10% 63V	QP12151319
2501		5322 121 42386	100nF 5% 63V	QQ12142386
2502		5322 121 42386	100nF 5% 63V	QQ12142386
2503	/02B/05B	4822 126 13985	150pF 5% 50V	QP12613985
2504	/02B/05B	4822 126 13985	150pF 5% 50V	QP12613985
2505		4822 124 11781	S10µF 25V 20%	QP12411781
2506		4822 124 11781	S10µF 25V 20%	QP12411781
2507		4822 124 80196	47µF20% 50V	QP12480196
2508		4822 124 80196	47µF20% 50V	QP12480196
2509		4822 126 10781	470pF 50V	QP12610781
2510		4822 126 10781	470pF 50V	QP12610781
▲ 2511		4822 126 12785	47nF Y5VTUB 50V	QP12612785
▲ 2512		4822 126 12785	47nF Y5VTUB 50V	QP12612785
2513		4822 121 41935	12nF 5% 250V	QP12141935
2514		4822 121 41935	12nF 5% 250V	QP12141935
2515		4822 121 51299	1nF 10% 50V	QP12151299
2516		4822 121 51299	1nF 10% 50V	QP12151299
2517		4822 124 11781	S10µF 25V 20%	QP12411781
2518		4822 124 11781	S10µF 25V 20%	QP12411781
2519		4822 126 13151	3.9nF 10% Y5R 16V	QP12613151
2520		4822 126 13151	3.9nF 10% Y5R 16V	QP12613151
2521		4822 124 80293	100µF20% 25V	QP12480293
2522		4822 124 80293	100µF20% 25V	QP12480293
▲ 2539	PM57	4822 121 51387	10nF 20% 16V	QP12151387
2551				
|	/02B/05B	4822 122 33849	150pF 10%Y5P 50V	QP12233849
2564				
▲ 2565				
|		4822 126 12147	22nF10% Y5R 25V	QP12612147
▲ 2579				
2581		4822 124 80141	10nF10% 50V	QP12480141
▲ 2582		4822 121 51387	10nF20% 16V	QP12151387
2585				
|		4822 122 33519	470pF10% 50V	QP12233519
2588				
▲ 2590		4822 124 40246	4.7µF20% 63V	QP12440246
			RESISTORS	
3241		4822 116 52207	1K2 5% 0.5W	QP11652207
3242		4822 116 52207	1K2 5% 0.5W	QP11652207
3251		4822 116 52175	100E 5% 0.5W	QP11652175
3252		4822 116 52175	100E 5% 0.5W	QP11652175
3253		4822 116 52284	47K 5% 0.5W	QP11652284
3254		4822 116 52284	47K 5% 0.5W	QP11652284
3255		4822 116 52271	33K 5% 0.5W	QP11652271
3256		4822 116 52271	33K 5% 0.5W	QP11652271
3257		4822 116 52226	560E 5% 0.5W	QP11652226
3258		4822 116 52226	560E 5% 0.5W	QP11652226
3259		4822 050 11002	1K00 1% 0.4W	QP05011002
3260		4822 050 11002	1K00 1% 0.4W	QP05011002
3261		4822 116 83864	10K 5% 0.5W	QP11683864
3262		4822 116 83864	10K 5% 0.5W	QP11683864
3263		4822 116 52271	33K 5% 0.5W	QP11652271
3264		4822 116 52271	33K 5% 0.5W	QP11652271
3265		4822 116 52303	8K2 5% 0.5W	QP11652303
3266		4822 116 52303	8K2 5% 0.5W	QP11652303
3267		4822 116 52296	6K8 5% 0.5W	QP11652296
3268		4822 116 52296	6K8 5% 0.5W	QP11652296

(VERS. :VERSION, U:U.S.A., F:JAPAN, K:FAR EAST, **:EUROPE)

POS. NO	VERS. COLOR	PART NO. (FOR EUROPE)	DESCRIPTION	PART NO. (USA/JPN)
▲ 3269		4822 052 10101	100R00 5% 0.33W	QP05210101
▲ 3270		4822 052 10101	100R00 5% 0.33W	QP05210101
▲ 3271		4822 052 10151	150R00 5% 0.33W	QP05210151
▲ 3272		4822 052 10151	150R00 5% 0.33W	QP05210151
3273		4822 116 52234	100K 5% 0.5W	QP11652234
3274		4822 116 52234	100K 5% 0.5W	QP11652234
3275		4822 116 52297	68K 5% 0.5W	QP11652297
3276		4822 116 52297	68K 5% 0.5W	QP11652297
3277		4822 116 52176	10E 5% 0.5W	QP11652176
3278		4822 116 52176	10E 5% 0.5W	QP11652176
3279		4822 116 52291	56K 5% 0.5W	QP11652291
3280		4822 116 52291	56K 5% 0.5W	QP11652291
3281		4822 116 52296	6K8 5% 0.5W	QP11652296
▲ 3282		4822 053 10222	2K20 5% 1W	QP05310222
3283		4822 050 21009	10R00 1% 0.6W	QP05021009
3284		4822 050 21009	10R00 1% 0.6W	QP05021009
3285		4822 116 52285	470K 5% 0.5W	QP11652285
3286		4822 116 52285	470K 5% 0.5W	QP11652285
3287		4822 116 83872	220R 5% 0.5W	QP11683872
3288		4822 116 83872	220R 5% 0.5W	QP11683872
3289		4822 116 52235	1M 5% 0.5W	QP11652235
3293		4822 116 52217	270E 5% 0.5W	QP11652217
3294		4822 116 52217	270E 5% 0.5W	QP11652217
3295		4822 101 10927	TRIMMER 470R	QP10110927
3296		4822 101 10927	TRIMMER 470R	QP10110927
▲ 3297				
|		4822 052 10101	100R00 5% 0.33W	QP05210101
▲ 3300				
3301		4822 050 11002	1K00 1% 0.4W	QP05011002
3302		4822 050 11002	1K00 1% 0.4W	QP05011002
▲ 3303		4822 053 10331	330R00 5% 1W	QP05310331
▲ 3304		4822 053 10331	330R00 5% 1W	QP05310331
▲ 3305				
|		4822 052 10108	1R00 5% 0.33W	QP05210108
▲ 3308				
3309		4822 117 12344	2XR18 10% 2X3W.	QP11712344
3310		4822 117 12344	2XR18 10% 2X3W.	QP11712344
▲ 3311		4822 052 10221	220R00 5% 0.33W	QP05210221
▲ 3312		4822 052 10221	220R00 5% 0.33W	QP05210221
3313		4822 117 10814	10R 5% 3W	QP11710814
3314		4822 117 10814	10R 5% 3W	QP11710814
3315	PM57	4822 050 22202	2K20 1% 0.6W	QP05022202
3316		4822 116 83864	10K 5% 0.5W	QP11683864
3317		4822 116 52219	330E 5% 0.5W	QP11652219
3318		4822 116 52219	330E 5% 0.5W	QP11652219
▲ 3319		4822 052 10681	680R00 5% 0.33W	QP05210681
▲ 3320		4822 052 10681	680R00 5% 0.33W	QP05210681
3321		4822 116 52249	1K8 5% 0.5W	QP11652249
3322		4822 116 52249	1K8 5% 0.5W	QP11652249
3323		4822 116 83882	39K 5% 0.5W	QP11683882
3324		4822 116 83882	39K 5% 0.5W	QP11683882
3325		4822 116 52297	68K 5% 0.5W	QP11652297
3326		4822 116 52297	68K 5% 0.5W	QP11652297
3327		4822 116 52257	22K 5% 0.5W	QP11652257
3328		4822 116 52257	22K 5% 0.5W	QP11652257
3329		4822 116 52296	6K8 5% 0.5W	QP11652296
3330		4822 116 52284	47K 5% 0.5W	QP11652284
3331		4822 116 52234	100K 5% 0.5W	QP11652234
3332		4822 116 52284	47K 5% 0.5W	QP11652284
3333		4822 116 52271	33K 5% 0.5W	QP11652271

POS. NO	VERS. COLOR	PART NO. (FOR EUROPE)	DESCRIPTION	PART NO. (USA/JPN)
3334		4822 116 52245	150K 5% 0.5W	QP11652245
3336		4822 116 52257	22K 5% 0.5W	QP11652257
3339		4822 116 52234	100K 5% 0.5W	QP11652234
3340				
|		4822 116 83864	10K 5% 0.5W	QP11683864
3342				
3345		4822 116 52283	4K7 5% 0.5W	QP11652283
▲ 3347		4822 050 24708	4R70 1% 0.6W	QP05024708
3348		4822 116 83864	10K 5% 0.5W	QP11683864
3467		4822 116 83864	10K 5% 0.5W	QP11683864
3501		4822 050 11002	1K00 1% 0.4W	QP05011002
3502		4822 050 11002	1K00 1% 0.4W	QP05011002
3503				
|		4822 116 52234	100K 5% 0.5W	QP11652234
3506				
3507		4822 116 52206	120E 5% 0.5W	QP11652206
3508		4822 116 52206	120E 5% 0.5W	QP11652206
3509		4822 116 52234	100K 5% 0.5W	QP11652234
3510		4822 116 52234	100K 5% 0.5W	QP11652234
3511		4822 116 52289	5K6 5% 0.5W	QP11652289
3512		4822 116 52289	5K6 5% 0.5W	QP11652289
3513		4822 116 83872	220R 5% 0.5W	QP11683872
3514		4822 116 83872	220R 5% 0.5W	QP11683872
3515		4822 116 52284	47K 5% 0.5W	QP11652284
3516		4822 116 52284	47K 5% 0.5W	QP11652284
▲ 3517		4822 052 10479	47R00 5% 0.33W	QP05210479
▲ 3518		4822 052 10479	47R00 5% 0.33W	QP05210479
3519		4822 116 52175	100E 5% 0.5W	QP11652175
3520		4822 116 52175	100E 5% 0.5W	QP11652175
3542	PM57	4822 101 11481	ROTARY POTM 100K X 2 W/MOTOR	QP10111481
3542	PM47	4822 101 11477	ROTARY POTM 100K X 2	QP10111477
3551				
|		4822 116 52235	1M 5% 0.5W	QP11652235
3558				
3559		4822 116 52234	100K 5% 0.5W	QP11652234
3560		4822 116 52234	100K 5% 0.5W	QP11652234
3561		4822 116 52235	1M 5% 0.5W	QP11652235
3562		4822 116 52235	1M 5% 0.5W	QP11652235
3563		4822 116 52234	100K 5% 0.5W	QP11652234
3564		4822 116 52234	100K 5% 0.5W	QP11652234
3565		4822 116 83864	10K 5% 0.5W	QP11683864
3566		4822 116 83864	10K 5% 0.5W	QP11683864
			SEMICONDUCTORS	
▲ 6251				
|		4822 130 30621	1N4148 (COL)	QP13030621
▲ 6259				
▲ 6260		4822 130 82079	D3SBA20	QP13082079
▲ 6261				
|		5322 130 30684	1N4002	QQ13030684
▲ 6265				
6266		4822 130 34382	BZX79-C8V2	QP13034382
6267		4822 130 34281	BZX79-B15	QP13034281
▲ 6268		4822 130 30621	1N4148 (COL)	QP13030621
▲ 6552		4822 130 30621	1N4148 (COL)	QP13030621
▲ 7250		4822 209 83732	AN7062P	QP20983732
7251		4822 130 42949	2SA970	QP13042949
7252		4822 130 42949	2SA970	QP13042949
7253		4822 130 10445	2SC2240	QP13010445
7254		4822 130 10445	2SC2240	QP13010445
▲ 7255		4822 130 60117	2SC3419	QP13060117

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POS. NO	VERS. COLOR	PART NO. (FOR EUROPE)	DESCRIPTION	PART NO. (USA/JPN)
⚠ 7256		4822 130 60117	2SC3419	QP13060117
7257		4822 130 10445	2SC2240	QP13010445
7258		4822 130 10445	2SC2240	QP13010445
7259		4822 130 42949	2SA970	QP13042949
7260		4822 130 42949	2SA970	QP13042949
7261		4822 130 10446	2SD2033	QP13010446
7262		4822 130 10446	2SD2033	QP13010446
7263		4822 130 10447	2SB1353	QP13010447
7264		4822 130 10447	2SB1353	QP13010447
7265		4822 130 10448	2SC3181N-R	QP13010448
7266		4822 130 10448	2SC3181N-R	QP13010448
7267		4822 130 10449	2SA1264N-R	QP13010449
7268		4822 130 10449	2SA1264N-R	QP13010449
⚠ 7269	PM57	4822 130 90347	PC817	QP13090347
⚠ 7270	PM57	4822 130 90347	PC817	QP13090347
7271		4822 130 10445	2SC2240	QP13010445
7272		4822 130 10445	2SC2240	QP13010445
7273		4822 130 42949	2SA970	QP13042949
⚠ 7274		4822 209 83312	TA7317P	QP20983312
⚠ 7275		4822 130 44197	BC558B	QP13044197
7276		4822 130 40937	BC548B	QP13040937
⚠ 7277		5322 209 71759	L7815CV	QQ20971759
7278		4822 209 12715	L7915CV	QP20912715
⚠ 7281		4822 130 44196	BC548C	QP13044196
⚠ 7282		4822 130 44196	BC548C	QP13044196
⚠ 7379		4822 209 80817	L7805CV	QP20980817
7501		4822 209 73064	NJM2068D-D	QP20973064
7551		4822 209 13648	LC78212	QP20913648
7552		4822 209 13648	LC78212	QP20913648
			CONTROL BOARD MISCELLANEOUS	
⚠ 1002	/02B/05B	4822 070 31602	FUSE T1.6A 250V IEC	QP07031602
1251	PM57	4822 276 13771	SPEAKER SYSTEM SWITCH	QP27613771
1260	PM57	4822 265 10648	HEADPHONE SOCKET	QP26510648
1260	PM47	4822 265 10653	HEADPHONE SOCKET	QP26510653
⚠ 1262		4822 276 13772	POWER SWITCH	QP27613772
1400	PM57	4822 130 10165	IR RECEIVER GP1U28XP	QP13010165
1411				
|		4822 276 13114	TACT SWITCH	QP27613114
1416				
1417		4822 277 11574	SOURCE SELECTION SWITCH	QP27711574
1421	PM57	4822 265 10651	CINCH SOCKET - RC-5	QP26510651
1510		4822 276 13773	LOUDNESS/TONE DEFEAT SW	QP27613773
5314	PM47	4822 280 20501	RELAY 2P 24V 2A	QP28020501
5400		4822 242 72527	CERAM RESONATOR 4MHZ	QP24272527
			CAPACITORS	
⚠ 2309		4822 121 51387	10nF 20% 16V	QP12151387
⚠ 2310		4822 121 51387	10nF 20% 16V	QP12151387
2341		4822 126 13332	10nF 20% 400V	QP12613332
2400		4822 126 13325	100nF 10% 16V	QP12613325
⚠ 2401		4822 121 51387	10nF 20% 16V	QP12151387
2406		4822 124 40248	10µF 20% 63V	QP12440248
2407		4822 124 40248	10µF 20% 63V	QP12440248
2408	PM57	4822 124 22263	220µF 20% 25V	QP12422263
2409	PM57	4822 124 80141	10nF 10% 50V	QP12480141
2416	PM57	4822 124 22263	220µF 20% 25V	QP12422263
2427	PM57	4822 124 80141	10nF 10% 50V	QP12480141
⚠ 2430				
|		4822 121 51387	10nF 20% 16V	QP12151387
⚠ 2435				
2440	PM57	4822 126 13325	100nF 10% 16V	QP12613325

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⚠ 2441				
|		4822 121 51387	10nF 20% 16V	QP12151387
⚠ 2448				
2471		4822 126 13325	100nF 10% 16V	QP12613325
⚠ 2472		4822 124 40196	220µF 20% 16V	QP12440196
⚠ 2473		4822 124 41579	10µF 20% 50V	QP12441579
2525		4822 121 43526	47nF 5% 250V	QP12143526
2526		4822 121 43526	47nF 5% 250V	QP12143526
2527		4822 121 42469	5.6nF 5% 250V	QP12142469
2528		4822 121 42469	5.6nF 5% 250V	QP12142469
2529		4822 121 51436	820nF 10% 63V	QP12151436
2530		4822 121 51436	820nF 10% 63V	QP12151436
2531		4822 121 43396	120nF 5% 63V	QP12143396
2532		4822 121 43396	120nF 5% 63V	QP12143396
2533		4822 124 40248	10µF 20% 63V	QP12440248
2534		4822 124 40248	10µF20% 63V	QP12440248
2535		4822 121 51299	1nF 10% 50V	QP12151299
2536		4822 121 51299	1nF 10% 50V	QP12151299
2537		4822 126 13325	100nF 10% 16V	QP12613325
2538		4822 126 13325	100nF 10% 16V	QP12613325
			RESISTORS	
⚠ 3345		4822 053 11331	330R00 5% 2W	QP05311331
⚠ 3346		4822 053 11331	330R00 5% 2W	QP05311331
3400		4822 116 52234	100K 5% 0.5W	QP11652234
3401		4822 116 83864	10K 5% 0.5W	QP11683864
3402		4822 116 83864	10K 5% 0.5W	QP11683864
3403		4822 116 52257	22K 5% 0.5W	QP11652257
3404		4822 116 52283	4K7 5% 0.5W	QP11652283
3405		4822 116 52256	2K2 5% 0.5W	QP11652256
3406		4822 116 52284	47K 5% 0.5W	QP11652284
3407		4822 116 52175	100R 5% 0.5W	QP11652175
⚠ 3408	PM57	4822 052 10101	100R00 5% 0.33W	QP05210101
3411	PM57	4822 116 83864	10K 5% 0.5W	QP11683864
3412	PM57	4822 116 83864	10K 5% 0.5W	QP11683864
3413	PM57	4822 116 52257	22K 5% 0.5W	QP11652257
3414	PM57	4822 116 52284	47K 5% 0.5W	QP11652284
3415		4822 116 52257	22K 5% 0.5W	QP11652257
⚠ 3416		4822 052 10101	100R00 5% 0.33W	QP05210101
3417		4822 116 52195	47R 5% 0.5W	QP11652195
3418		4822 116 52257	22K 5% 0.5W	QP11652257
3421				
|		4822 116 52283	4K7 5% 0.5W	QP11652283
3423				
3424		4822 116 83864	10K 5% 0.5W	QP11683864
3426	PM57	4822 116 83872	220R 5% 0.5W	QP11683872
3427	PM57	4822 116 52276	3K9 5% 0.5W	QP11652276
3429		4822 116 83864	10K 5% 0.5W	QP11683864
3431				
|		4822 116 83864	10K 5% 0.5W	QP11683864
3438				
3441				
|		4822 116 52257	22K 5% 0.5W	QP11652257
3448				
3451		4822 116 83864	10K 5% 0.5W	QP11683864
3452		4822 050 11002	1K00 1% 0.4W	QP05011002
3453		4822 116 83864	10K 5% 0.5W	QP11683864
3454		4822 116 52222	390E 5% 0.5W	QP11652222
3455		4822 116 52222	390E 5% 0.5W	QP11652222
3456				
|		4822 116 52257	22K 5% 0.5W	QP11652257
3458				

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POS. NO	VERS. COLOR	PART NO. (FOR EUROPE)	DESCRIPTION	PART NO. (USA/JPN)
3461				
I		4822 116 52285	470K 5% 0.5W	QP11652285
3464				
3465		4822 116 83864	10K 5% 0.5W	QP11683864
⚠ 3471		4822 052 10101	100R00 5% 0.33W	QP05210101
3472		4822 116 52285	470K 5% 0.5W	QP11652285
3473		4822 116 52257	22K 5% 0.5W	QP11652257
3474	PM57	4822 116 52285	470K 5% 0.5W	QP11652285
3475		4822 116 52285	470K 5% 0.5W	QP11652285
3476		4822 116 52285	470K 5% 0.5W	QP11652285
3477				
I		4822 116 52257	22K 5% 0.5W	QP11652257
3479				
3481	PM57	4822 116 52222	390E 5% 0.5W	QP11652222
3521		4822 116 52175	100E 5% 0.5W	QP11652175
3522		4822 116 52175	100E 5% 0.5W	QP11652175
3523		4822 116 52231	820E 5% 0.5W	QP11652231
3524		4822 116 52231	820E 5% 0.5W	QP11652231
3525		4822 116 52199	68E 5% 0.5W	QP11652199
3526		4822 116 52199	68E 5% 0.5W	QP11652199
3527		4822 116 52231	820E 5% 0.5W	QP11652231
3528		4822 116 52231	820E 5% 0.5W	QP11652231
3529		4822 116 83864	10K 5% 0.5W	QP11683864
3530		4822 116 83864	10K 5% 0.5W	QP11683864
3531		4822 116 52289	5K6 5% 0.5W	QP11652289
3532		4822 116 52289	5K6 5% 0.5W	QP11652289
3533		4822 101 11478	ROTARY POTM 50K X 2	QP10111478
3534		4822 101 11478	ROTARY POTM 50K X 2	QP10111478
3535		4822 116 52244	15K 5% 0.5W	QP11652244
3536		4822 116 52244	15K 5% 0.5W	QP11652244
3537		4822 116 52284	47K 5% 0.5W	QP11652284
3538		4822 116 52284	47K 5% 0.5W	QP11652284
3539		4822 116 52289	5K6 5% 0.5W	QP11652289
3540		4822 116 52289	5K6 5% 0.5W	QP11652289
3541		4822 101 11479	ROTARY POTM 100K X 2	QP10111479
			SEMICONDUCTORS	
⚠ 6268	PM47	4822 130 30621	1N4148 (COL)	QP13030621
⚠ 6400		4822 130 30621	1N4148 (COL)	QP13030621
⚠ 6401		4822 130 30621	1N4148 (COL)	QP13030621
⚠ 6402	PM57	4822 130 30621	1N4148 (COL)	QP13030621
6403				
I		4822 130 82978	LTL-16KPE	QP13082978
6407				
6408	PM57	4822 130 82978	LTL-16KPE	QP13082978
6409		4822 130 82978	LTL-16KPE	QP13082978
6410		4822 130 82978	LTL-16KPE	QP13082978
⚠ 6411		4822 130 30621	1N4148 (COL)	QP13030621
⚠ 6412		4822 130 30621	1N4148 (COL)	QP13030621
6413	PM57	4822 130 34174	BZX79-C4V7	QP13034174
7400		4822 209 90571	TMP47C200BN-H347	QP20990571
7401				
I		4822 130 40937	BC548B	QP13040937
7403				
⚠ 7404	PM57	4822 130 44197	BC558B	QP13044197
7405	PM57	4822 130 40937	BC548B	QP13040937
⚠ 7406				
I		4822 130 44197	BC558B	QP13044197
⚠ 7409				
7410		4822 130 40937	BC548B	QP13040937
⚠ 7411		4822 130 44197	BC558B	QP13044197
7412	PM57	4822 209 30193	LB1641	QP20930193

NOTE ON SAFETY :

Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol ⚠. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.